COMMERCIAL

Atlona VGA over CAT5/5e/6 Extender w/Audio and RS-232

AT-VGA-RS300SRS

User Manual

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Introduction

The Atlona VGA over CAT5/5e/6 Extender w/Audio and RS-232 allows users to extend VGA signals (up to 1920x1200) further than before. Using a single CAT5/5e/6 cable these units extend signal distances up to 1000ft (300m) with no signal degradation. With built in Equalization and GAIN control, transmission paths can be adjusted to adapt to the cable quality and video bandwidth. This unit is perfect for extending computer monitors and digital signage.

Package Contents

- 1 x AT-VGA-RS300SRS (Sender and Receiver)
- 2 x Locking 5V DC power supply unit
- 4 x Screws
- 1 x mini screwdriver w/phillips-head and flat-head tips
- 1 x User Manual

Features

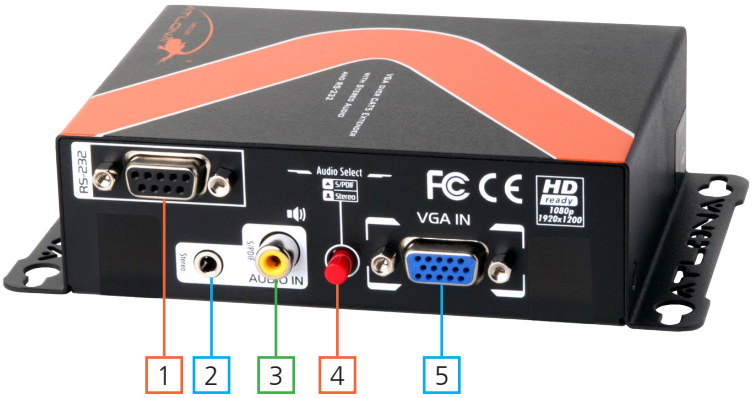
- Supports up to 1920x1200 (WUXGA) to distances up to 1000ft (300ft).
- Supports RS-232 pass through
- Includes stereo (3.5mm) and digital (S/PDIF) audio
- Adjustable equalization and gain control on AT-VGA-RS300R (receiver)
- Wall mounting case & interlocked power jack

Specifications

Video Bandwidth	350Mhz
Resolution outputs	Video: up to 1080p Vesa: up to 1920x1200
Dimensions (LxWxH)	4.8x3.7x1 (inch) or 123x95x25 (mm)
Temperature	Operating: 32°F to 104°F or 0°C to 40°C Storage: -4°F to 140°F or -20°C to 60°C
Power consumption	6W
Sender:	
Input Ports	1 x VGA 1 x S/PDIF 1 x RS-232 1 x 3.5mm stereo audio
Output Ports	1 x RJ45 1 x S/PDIF 1 x VGA 1 x 3.5mm stereo audio
Weight	.75lbs or 370g
Receiver:	
Input Ports	1 x RJ45 1 x S/PDIF 1 x 3.5mm
Output Ports	1 x VGA 1 x RS-232 1 x 3.5mm
Weight	.88lbs or 380g

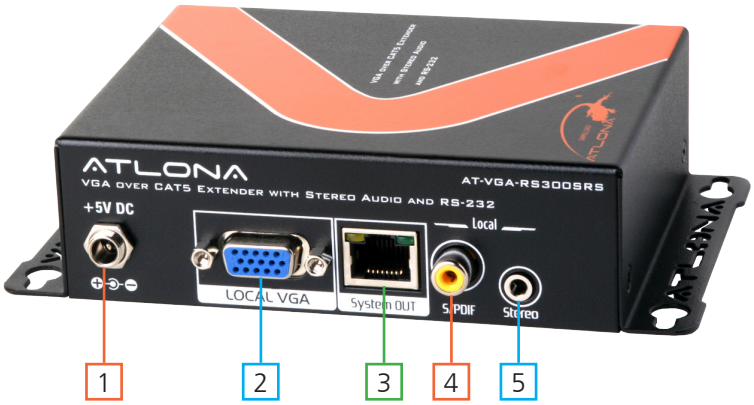
Panel Description

Sender Front Panel



1. RS-232: Use a 9pin to 9pin cable to connect to a RS-232 device
2. Stereo IN: Connect an analog audio source here
3. S/PDIF IN: Connect a digital audio source to this port
4. Push-in button: Select between S/PDIF and analog stereo audio
   Button down: S/PDIF Button up: Stereo
5. VGA IN: Connect a VGA source here

Sender Back Panel



1. +5V DC: Connect the included 5V DC locking power supply here
2. Local VGA: VGA loop-out to a local VGA display
3. System OUT: CAT5/5e/6 connection for sending signal to a receiver (AT-VGA-RS300SRS)
4. Local S/PDIF: Digital stereo audio loop-out
5. Local Stereo: Analog stereo audio loop-out

Receiver Front Panel

1. +5V DC: Connect the included 5V DC locking power supply here
2. System IN: CAT5/5e/6 input for connection to the AT-VGA-RS300S
3. Equalizer: Turn the rotary to adjust the sharpness
4. Gain: Use the rotary to adjust brightness

Receiver Back Panel

1. RS-232: Use a 9pin to 9pin cable to connect to a RS-232 device
2. Audio Out: Connect to an analog audio device (Ex. AT-PA100-G2)
3. S/PDIF Out: Connect to a digital audio device (Ex. AVR)
4. VGA Out: Connect to a VGA display

Dip Switch

Dip Switch Position				Description
Pin 1	Pin 2	Pin 3	Pin 4	
On ↑	Off ↓	On ↑	Off ↓	Sender & Receiver Extender Mode - TxD of AT-VGA-RS300S is connected to TxD of AT-VGA-RS300R RxD of AT-VGA-RS300S is connected to RxD of AT-VGA-RS300R
Off ↓	On ↑	Off ↓	On ↑	Master to Slave Mode - TxD of AT-VGA-RS300S is connected to RxD of AT-VGA-RS300R RxD of AT-VGA-RS300S is connected to TxD of AT-VGA-RS300R

Note: 1. TxD: The 3rd pin of RS-232, which is in charge of sending data
2. RxD: The 2nd pin of RS-232, which is in charge of receiving data
3. The Dip Switch is located on the bottom of the AT-VGA-RS300S (sender)

Connection and Installation

1. Connect VGA source, audio source, and RS-232 devices to the AT-VGA-RS300S (Sender)
2. Connect VGA display, audio, and RS-232 devices to the AT-VGA-RS300R (Receiver)
3. Connect a CAT5/5e/6 cable between the transmitting and receiving units.
4. Plug in 5V DC power supply unit to the power jack of the AT-VGA-RS300R (Receiver)
5. Plug in 5V DC power supply unit to the power jack of the AT-VGA-RS300S (Sender)
6. Adjust brightness with the gain rotary.
7. Use the equalizer dial to adjust sharpness.

ATLONA
Connecting technology to your world
VGA IN
AUDIO IN
+5V DC
LOCAL VGA
S/PDIF
CAUTION
Tuning
System IN
VGA OUT
Optional AT-PA100-G2
or
ATLONA
Connecting technology to your world

Safety Information

Safeguards

To reduce the risk of electric shock, do not expose this product to rain or moisture

Do not modify the wall plug. Doing so will void the warranty and safety features.

If the wall plug does not fit into your local power socket, hire an electrician to replace your obsolete socket.

This equipment should be installed near the socket outlet and the device should be easily accessible in the case it requires disconnection.

Precautions

FCC regulations state that any unauthorized changes or modifications to this equipment, not expressly approved by the manufacturer, could void the user's authority to operate this equipment.

Operate this product using only the included external power supply. Use of other power supplies could impair performance, damage the product, or cause fires.

In the event of an electrostatic discharge this device may automatically turn off. If this occurs, unplug the device and plug it back in.

Protect and route power cords so they will not be stepped on or pinched by anything placed on or against them. Be especially careful of plug-ins or cord exit points from this product.

Avoid excessive humidity, sudden temperature changes or temperature extremes.

Keep this product away from wet locations such as bathtubs, sinks, laundries, wet basements, fish tanks, and swimming pools.

Use only accessories recommended by Atlona to avoid fire, shock, or other hazards.

Unplug the product before cleaning. Use a damp cloth for cleaning and not cleaning fluid or aerosols. Such products could enter the unit and cause damage, fire, or electric shock. Some substances may also mar the finish of the product.

Never open, remove unit panels, or make any adjustments not described in this manual. Attempting to do so could expose you to dangerous electrical shock or other hazards. It may also cause damage to your AT-VGA-RS300SRS. Opening the product will void the warranty.

Do not attempt to service the unit. Disconnect the product and contact your authorized Atlona reseller or contact Atlona directly.

Warranty

Limited Warranty

Atlona Technologies warrants that (a) its products (AT-VGA-RS300SRS) will perform substantially in accordance with the accompanying written materials for a period of 3 years from the date of receipt and (b) that the product will be free from defects in materials and workmanship under normal use and service for a period of 3 years. In the event applicable law imposes any implied warranties, the implied warranty period is limited to 3 years from the date of receipt. Some jurisdictions do not allow such limitations on duration of an implied warranty, so the above limitation may not apply to customers that fall within those areas.

Customer Remedies

Atlona Technologies' and its suppliers' entire liability and Customer's exclusive remedy shall be, at Atlona Technologies' decision, either return of the price paid for the product, repair, or replacement of the product that does not meet this Limited Warranty and which is returned to Atlona Technologies with a copy of the Customer's receipt. This Limited Warranty is void if failure of the product has resulted from accident, abuse, misapplication, or natural occurrence. In example but not limited to: power surges (electrical storms, local power outage), dropping the product (or items on the product), contact with fluids, and physical misconduct (i.e. kicking or punching). Any replacement product will be warranted for the remainder of the original warranty period.

No other warranties

To the maximum extent permitted by applicable law, Atlona Technologies and its suppliers disclaim all other warranties, either expressed or implied, including, but not limited to, implied warranties of merchantability and fitness for a particular purpose, with regard to the product and any related written materials. This Limited Warranty gives customer specific legal rights. Customers may have other rights depending on the jurisdiction.

No liability for damages

To the maximum extent permitted by applicable law, in no event shall Atlona Technologies or its suppliers be liable for any damages arising out of the use of or inability to use this product, even if Atlona Technologies has been advised of the possibility of such damages. Such damages include but are not limited to: special, incidental, consequential, or indirect damages for personal injury, loss of business profits, business interruption, loss of business information, or any other pecuniary loss. Atlona Technologies' and its suppliers' entire liability under any provision of this agreement shall be limited to the amount actually paid by you for the product. Some Jurisdictions do not allow the exclusion or limitation of liability for consequential or incidental damage. The above limitations may not apply to you in such jurisdictional cases.

Atlona Product Registration

Thank you for purchasing this Atlona product. - We hope you enjoy it and will take an extra few moments to register your new purchase.

Registration creates an ownership record if your product is lost or stolen and helps ensure you'll receive notification of performance issues and firmware updates.

At Atlona, we respect and protect your privacy, assuring you that your registration information is completely secure. Atlona product registration is completely voluntary and failure to register will not diminish your limited warranty rights.

To register go to: http://www.atlona.com/registration